

Title (en)  
Thermal type flow measuring apparatus

Title (de)  
Thermischer Durchflussmesser

Title (fr)  
Appareil de mesure de débit de type thermique

Publication  
**EP 1742025 A3 20130515 (EN)**

Application  
**EP 06014184 A 20060707**

Priority  
JP 2005200747 A 20050708

Abstract (en)  
[origin: EP1742025A2] A thermal type flow measuring apparatus includes a heating resistor (10) provided in a thin part (7) of a substrate (2) and a bridge circuit for driving the heating resistor (10) to have a preset heating temperature, wherein resistor elements on sides forming the bridge circuit are temperature sensitive resistors (11, 12, 13), a part or whole of at least one of the temperature sensitive resistors is placed in the thin part (7) and near the heating resistor (10) so that the temperature sensitive resistor is influenced by a heat of the heating resistor (10), and the preset heating temperature is increased as the flow of fluid is increased. This configuration introduces flow dependency into the heating temperature of the heating resistor (10).

IPC 8 full level  
**G01F 1/684** (2006.01); **G01F 1/692** (2006.01); **G01F 1/698** (2006.01)

CPC (source: EP US)  
**G01F 1/6845** (2013.01 - EP US); **G01F 1/692** (2013.01 - EP US); **G01F 1/698** (2013.01 - EP US)

Citation (search report)

- [Y] EP 1376073 A2 20040102 - HITACHI LTD [JP], et al
- [Y] JP 2002090200 A 20020327 - YAZAKI CORP
- [A] DE 10329853 A1 20040122 - MITSUBISHI ELECTRIC CORP [JP]

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EP1992917A3; EP2482042A3; US8069718B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1742025 A2 20070110; EP 1742025 A3 20130515; EP 1742025 B1 20150422**; CN 100470209 C 20090318; CN 1892188 A 20070110; JP 2007017352 A 20070125; JP 4845440 B2 20111228; US 2007024119 A1 20070201; US 7409859 B2 20080812

DOCDB simple family (application)  
**EP 06014184 A 20060707**; CN 200610100749 A 20060704; JP 2005200747 A 20050708; US 48097906 A 20060706